

1 **DISK DRIVE CONTROL SYSTEM HAVING**
2 **CACHE DEMAND CIRCUIT**

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4 **ABSTRACT**

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6 A disk drive control system comprising a micro-controller, a micro-controller cache
7 system adapted to store micro-controller data for access by the micro-controller, a buffer
8 manager adapted to provide the micro-controller cache system with micro-controller
9 requested data stored in a remote memory, and a cache demand circuit adapted to: a)
10 receive a memory address and a memory access signal, and b) cause the micro-controller
11 cache system to fetch data from the remote memory via the buffer manager based on the
12 received memory address and memory access signal prior to a micro-controller request.